SIMD/MIMD PROCESSING ON A RECONFIGURABLE ARRAY

ABSTRACT OF THE INVENTION

5

A system and method for programming an MxN array of cells. Each cell is reconfigurable to execute a function according to a context instruction. The context instruction defines an operation of the array. An enable register includes a row enable register and a column enable register, corresponding to the M rows and N columns. Each cell is individually and independently enabled for receiving a next context instruction, according to an enable signal provided by the enable register. Non-enabled cells execute a present context. Enabled cells receive and execute an updated context. In this way, the array of cells can be configured to execute any number of independent functions for the operation.

15

10